

1SS250

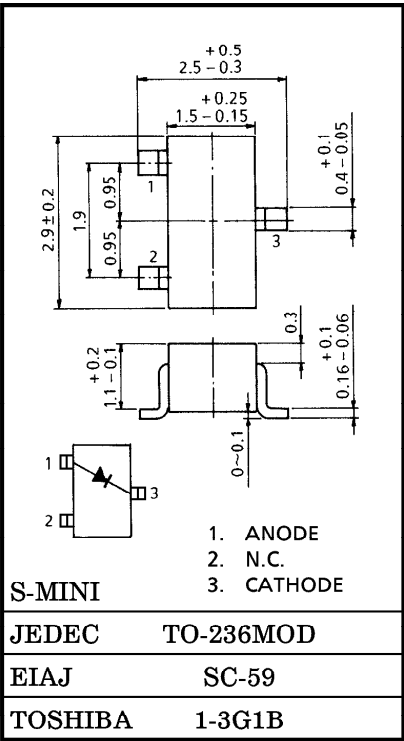
HIGH SPEED SWITCHING APPLICATIONS.

Unit in mm

- Low Forward Voltage :  $V_F(2)=0.90V$  (Typ.)
- Fast Reverse Recovery Time :  $t_{rr}=60ns$  (Max.)
- Small Total Capacitance :  $C_T=1.5pF$  (Typ.)
- Small Package : SC-59

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Reverse Voltage	$V_{RM}$	250	V
Reverse Voltage	$V_R$	200	V
Peak Forward Current	$I_{FM}$	300	mA
Average Forward Current	$I_O$	100	mA
Surge Current (10ms)	$I_{FSM}$	2	A
Power Dissipation	P	150	mW
Junction Temperature	$T_j$	125	°C
Storage Temperature Range	$T_{stg}$	-55~125	°C



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Weight : 0.012g

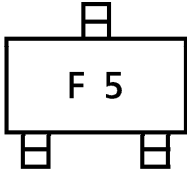
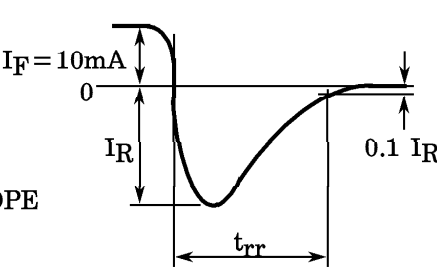
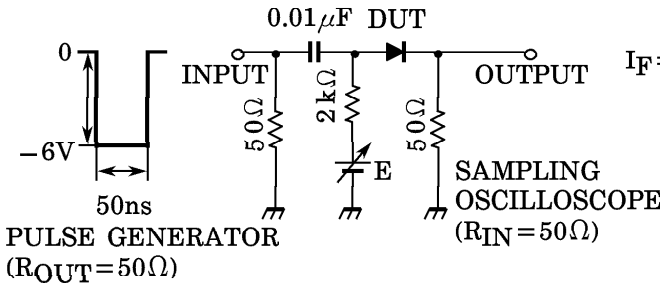
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage	$V_F(1)$	$I_F=10mA$	—	0.72	1.00	V
	$V_F(2)$	$I_F=100mA$	—	0.90	1.20	
Reverse Current	$I_R(1)$	$V_R=50V$	—	—	0.1	$\mu A$
	$I_R(2)$	$V_R=200V$	—	—	1.0	
Total Capacitance	$C_T$	$V_R=0, f=1MHz$	—	1.5	3.0	pF
Reverse Recovery Time	$t_{rr}$	$I_F=10mA$ (Fig.1)	—	10	60	ns

Fig1. REVERSE RECOVERY TIME ( $t_{rr}$ ) TEST CIRCUIT

MARKING

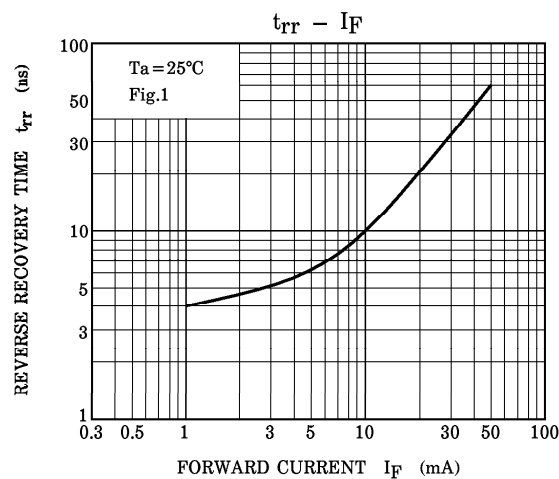
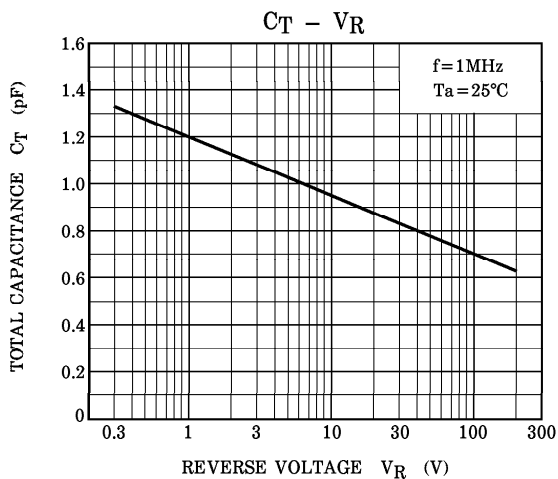
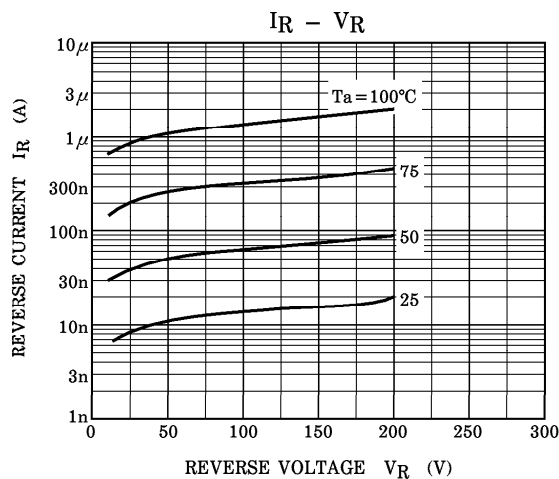
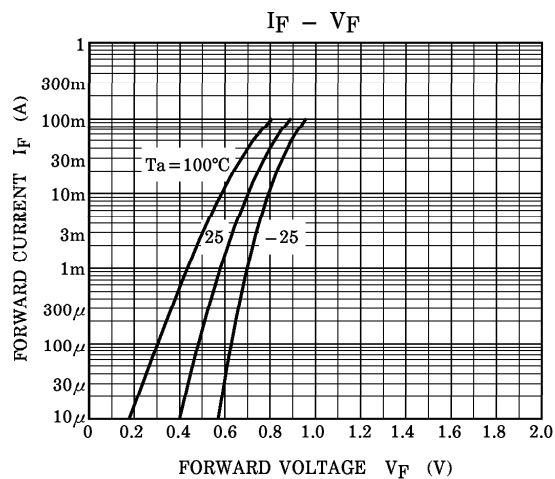
INPUT WAVEFORM

OUTPUT WAVEFORM



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